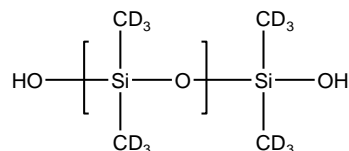


**Sample Name: Deuterated Polydimethyl siloxane; Disilanol terminated**

**Sample #: P41878F-dPDMS**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
4.0	1.09

**Synthesis Procedure:**

The polymerization of the Deuterated Polydimethyl siloxane; Disilanol terminated was initiated with CF<sub>3</sub>SO<sub>3</sub>H Cationic polymerization process.

**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and D NMR.

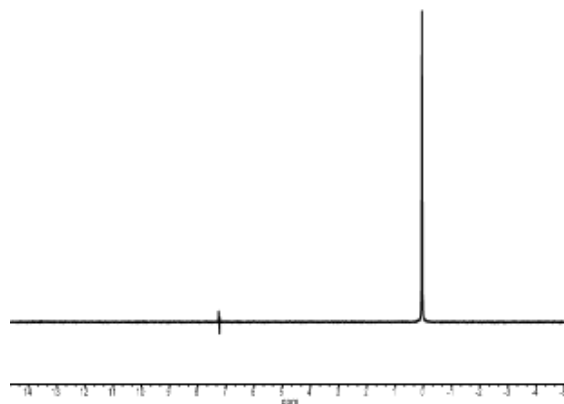
The following table is a listing of the conditions used for SEC analysis:

Parameter	Condition Used
Dissolution Solvent	Toluene
Sample Concentration	20 to 40 mg/mL
Filtration	0.2 µm Nylon syringe filter
Mobile Solvent	Toluene
Columns	2 X Malvern T3000
Flow Rate	1.0 mL/min
System Back Pressure	800 psi
Injection Volume	100 µL
Column Temperature	30°C
Detector Temperature	30°C

**Solubility:**

Deuterated Polydimethyl siloxane is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

**D NMR spectrum of the Sample:**

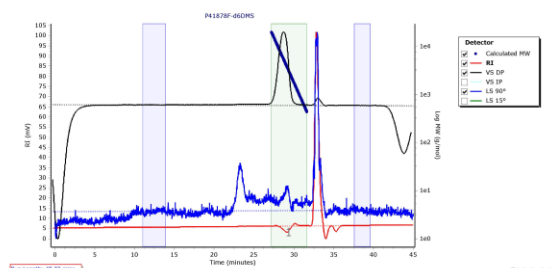


**SEC elugram of the Sample:**

Agilent GPC/SEC Software

P41878F-d6DMS

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
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Peak 1	3714	3902	4329	4753	5216	4753	1.092
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